epd-norge
Global program operatør

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

OFFECCT Carry On

OFFECCT

Flokk

The Norwegian EPD Foundation

Owner of the declaration:
Flokk AS

Product:
OFFECCT Carry On

Declared unit:
1 pcs

This declaration is based on Product Category Rules:
CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 026:2022 Part B for Furniture

Program operator:
The Norwegian EPD Foundation

Declaration number:
NEPD-11672-11598

Registration number:
NEPD-11672-11598

Issue date:
07.07.2025

Valid to:
07.07.2030

EPD software:
LCAno EPD generator ID: 1109875

General information

Product

OFFECCT Carry On

Program operator:

The Norwegian EPD Foundation
Post Box 5250 Majorstuen, 0303 Oslo, Norway
Phone: +47 977 22 020
web: www.epd-norge.no

Declaration number:

NEPD-11672-11598

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 026:2022 Part B for Furniture

Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Declared unit:

1 pcs OFFECCT Carry On

Declared unit (cradle to gate) with option:

A1-A3, A4, A5, B2, B3, B4, C1, C2, C3, C4, D

Functional unit:

OFFECCT Carry On with a wood handle, upholstered in Xtreme fabric from Camira, including packaging.

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

Verification of EPD tool:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Elisabet Amat, GREENIZE projects

(no signature required)

Owner of the declaration:

Flokk AS
Contact person: Atle Thiis-Messel
Phone: 0047 98 25 68 30
e-mail: atle.messel@flokk.com

Manufacturer:

Flokk AS
Drammensveien 145,
0277 Oslo, Norway

Place of production:

Flokk - Turek
ul. Górnicza 8
62-700 Turek, Poland

Management system:

ISO 14001, ISO 9001.

Organisation no:

No 928 902 749

Issue date:

07.07.2025

Valid to:

07.07.2030

Year of study:

2024

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

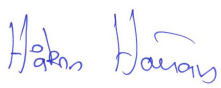
Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway.

Developer of EPD: Damian Bakowski

Reviewer of company-specific input data and EPD: Damian Piterek

Approved:



Håkon Hauan, CEO EPD-Norge

Product

Product description:

Carry On is a portable, upholstered stool designed for flexible and dynamic environments. It functions effectively as a standalone seating solution, but also serves as a complement to other furniture in collaborative and multifunctional spaces. Its design responds to the increasing need for adaptable interiors in modern work and project-based settings.

The stool features a top handle that not only enhances its portability but also intuitively indicates its intended use. With its round, minimalist form, Carry On blends traditional materials and craftsmanship - such as visible stitching and tailored detailing - with contemporary aesthetics and functional design.

Product specification

The model analyzed in detail in this declaration is the OFFECCT Carry On with a wooden handle, upholstered in Xtreme fabric from Camira, including packaging. Key environmental indicators for other models and options of the OFFECCT Carry On are presented in the tables on page 12 of this declaration.

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Chemical	0,0065	0,11	0,00	0,00
Kraft paper - Unbleached	0,38	6,66	0,0034	0,87
Metal - Aluminium	0,0089	0,15	0,0044	50,00
Metal - Brass	0,0022	0,038	0,00039	17,71
Metal - Steel	0,75	12,99	0,30	40,55
Metal - Zinc	0,21	3,64	0,00	0,00
Plastic - Nylon (PA)	0,0020	0,034	0,00	0,00
Plastic - Polyethylene (LDPE)	0,016	0,27	0,00	0,00
Plastic - Polypropylene (PP)	0,20	3,51	0,10	50,00
Plastic - Polyurethane (PUR)	1,82	31,19	0,00	0,00
Textile - Polyester	0,53	9,24	0,49	91,71
Wood - Plywood	0,93	16,023	0,00	0,00
Wood - Solid ash	0,055	0,94	0,00	0,00
Wood - Solid beech/birch	0,88	15,16	0,00	0,00
Total	5,83	100,00	0,91	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Paper	0,01	0,38	0,00	34,31
Packaging - Plastic	0,07	5,13	0,00	0,00
Recycled cardboard	1,29	94,48	1,29	100,00
Total incl. packaging	7,20	100,00	2,20	

Technical data:

The stool features an internal wooden frame, padded with high-resilience cold moulded foam for long-lasting seating comfort. It has a polypropylene (PP) base with integrated PP glides, offering durability and ease of movement.

The upholstery is available in a wide range of fabrics and leather options, allowing for versatile use across different interior settings.

A key element of the design is the carrying handle, available in two variants:
– solid ash wood handle with a white-pigmented finish,
– leather-covered handle made from vegetable-tanned leather.

Market:

Worldwide

Reference service life, product

15 years (warranty 5 years)

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs OFFECCT Carry On

Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

Data quality:

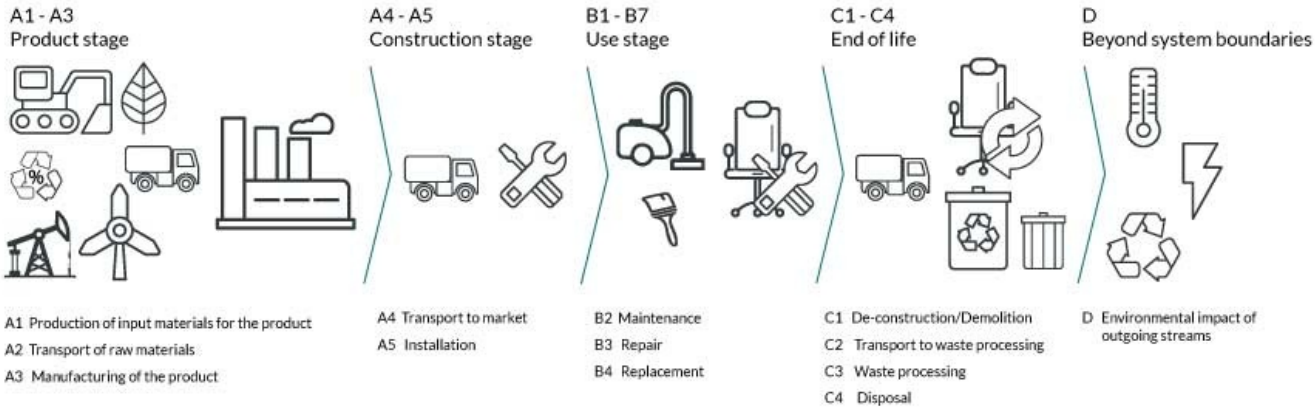
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other LCA databases. The data quality of the raw materials in A1 is presented in the table below.

Materials	Source	Data quality	Year
Chemical	ecoinvent 3.6	Database	2019
Kraft paper - Unbleached	ecoinvent 3.6	Database	2019
Metal - Aluminium	ecoinvent 3.6	Database	2019
Metal - Brass	ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Metal - Steel	Modified ecoinvent 3.6	Database	2019
Metal - Zinc	ecoinvent 3.6	Database	2019
Packaging - Paper	ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.6	Database	2019
Plastic - Nylon (PA)	ecoinvent 3.6	Database	2019
Plastic - Polyethylene (LDPE)	ecoinvent 3.6	Database	2019
Plastic - Polypropylene (PP)	ecoinvent 3.6	Database	2019
Plastic - Polypropylene (PP)	Modified ecoinvent 3.6	Database	2019
Plastic - Polyurethane (PUR)	ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Textile - Polyester	ecoinvent 3.6	Database	2019
Textile - Polyester	Modified ecoinvent 3.6	Database	2019
Wood - Plywood	modified ecoinvent 3.6	Database	2019
Wood - Solid ash	modified ecoinvent 3.6	Database	2019
Wood - Solid beech/birch	modified ecoinvent 3.6	Database	2019

System boundaries (X=included, MND=module not declared, MNR=module not relevant)

Product stage			Construction installation stage		Use stage							End of life stage				Beyond the system boundaries
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	MND	X	X	X	MND	MND	MND	X	X	X	X	X

System boundary:



Additional technical information:

LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, over 32 tonnes, EURO 5 (km)	53,3 %	1000	0,023	l/tkm	23,00

Assembly (A5)	Unit	Value			
Waste, packaging, cardboard, 100 % recycled, to average treatment (kg)	kg	1,28			
Waste, packaging, plastic film (LDPE), to average treatment - A5 (kg)	kg	0,070			
Waste, packaging, paper printed, to average treatment (kg)	kg	0,0052			

Maintenance (B2)	Unit	Value			
Water, tap water (m3)	m3/DU	0,78			
Electricity, European average (kWh)	kWh/DU	10,53			
Electricity, World average (kWh)	kWh/DU	1,17			

Repair (B3)	Unit	Value			
Electricity, European average (kWh)	kWh/DU	0,49			
Electricity, World average (kWh)	kWh/DU	0,055			

Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 5 (km)	36,7 %	85	0,044	l/tkm	3,74

Waste processing (C3)	Unit	Value			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	1,87			
Waste treatment per kg Paperboard, incineration with fly ash extraction - C3 (kg)	kg	0,38			
Waste treatment per kg Polyethylene, PE, incineration with fly ash extraction - C3 (kg)	kg	0,016			
Waste treatment per kg Polyurethane (PU), incineration (kg)	kg	1,82			
Waste, materials to recycling (kg)	kg	0,25			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	0,75			
Waste treatment per kg Scrap aluminium, incineration with fly ash extraction (kg)	kg	0,0089			
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg)	kg	0,21			
Waste treatment per kg Scrap copper, incineration with fly ash extraction (kg)	kg	0,0022			
Waste treatment per kg Plastics, Mixture, municipal incineration with fly ash extraction (kg)	kg	0,0020			
Waste treatment per kg Hazardous waste, incineration (kg)	kg	0,0065			
Waste treatment per kg Polypropylene (PP), incineration with fly ash extraction - C3 (kg)	kg	0,20			
Waste treatment per kg Textile, incineration with fly ash extraction (kg)	kg	0,53			

Disposal (C4)	Unit	Value			
Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg)	kg	0,021			
Landfilling of ashes from incineration of Paperboard, process per kg ashes and residues - C4 (kg)	kg	0,0069			
Landfilling of ashes from incineration of Polyethylene, PE, process per kg ashes and residues - C4 (kg)	kg	0,00056			
Landfilling of ashes from incineration of Polyurethane (PU), process per kg ashes and residues - C4 (kg)	kg	0,068			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	0,50			
Landfilling of ashes and residues from incineration of Scrap aluminium (kg)	kg	0,0080			
Landfilling of ashes from incineration of Non-hazardous waste, process per kg ashes and residues - C4 (kg)	kg	0,050			
Landfilling of ashes and residues from incineration of Scrap copper (kg)	kg	0,0019			
Landfilling of ashes from incineration of Plastics, Mixture, municipal incineration with fly ash extraction, process per kg ashes and residues - C4 (kg)	kg	0,000069			
Landfilling of ashes from incineration of Hazardous waste, from incineration (kg)	kg	0,0012			
Landfilling of ashes from incineration of Polypropylene, PP, process per kg ashes and residues - C4 (kg)	kg	0,0061			
Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg)	kg	0,027			

Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	78,12			
Substitution of electricity, in Norway (MJ)	MJ	5,16			
Substitution of primary steel with net scrap (kg)	kg	0,15			
Substitution of primary aluminium with net scrap (kg)	kg	0,00046			
Substitution of primary Brass with net scrap (kg)	kg	0,00019			

LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

Environmental impact							
Indicator		**Unit**	A1-A3	A4	A5	B2	B3
	GWP-total	kg CO_2 -eq	1,44E+01	6,55E-01	2,22E+00	5,67E+00	2,54E-01
	GWP-fossil	kg CO_2 -eq	2,00E+01	6,54E-01	2,65E-02	5,62E+00	2,52E-01
	GWP-biogenic	kg CO_2 -eq	-5,60E+00	2,68E-04	2,20E+00	3,61E-02	1,62E-03
	GWP-luluc	kg CO_2 -eq	3,05E-02	1,91E-04	7,34E-06	1,27E-02	5,74E-04
	ODP	kg CFC11 -eq	1,10E-06	1,51E-07	4,75E-09	4,39E-07	1,95E-08
	AP	mol H+ -eq	1,07E-01	2,75E-03	1,06E-04	3,22E-02	1,44E-03
	EP-FreshWater	kg P -eq	1,21E-03	4,99E-06	1,83E-07	5,47E-04	2,47E-05
	EP-Marine	kg N -eq	2,53E-02	8,27E-04	3,90E-05	4,31E-03	1,91E-04
	EP-Terrestial	mol N -eq	2,39E-01	9,14E-03	3,79E-04	5,22E-02	2,32E-03
	POCP	kg NMVOC -eq	7,55E-02	2,94E-03	1,10E-04	1,35E-02	5,94E-04
	ADP-minerals&metals[1]	kg Sb-eq	1,70E-02	1,12E-05	5,39E-07	4,34E-05	1,69E-06
	ADP-fossil[1]	MJ	3,31E+02	1,02E+01	3,16E-01	1,08E+02	4,87E+00
	WDP[1]	m^3	1,32E+04	7,81E+00	4,52E-01	1,51E+03	6,70E+01

Indicator		**Unit**	B4	C1	C2	C3	C4	D
	GWP-total	kg CO_2 -eq	0	0	1,02E-01	1,10E+01	1,39E-02	-6,42E-01
	GWP-fossil	kg CO_2 -eq	0	0	1,02E-01	6,03E+00	1,39E-02	-6,26E-01
	GWP-biogenic	kg CO_2 -eq	0	0	4,16E-05	4,93E+00	1,16E-05	-1,05E-03
	GWP-luluc	kg CO_2 -eq	0	0	3,57E-05	4,71E-05	2,88E-06	-1,58E-02
	ODP	kg CFC11 -eq	0	0	2,33E-08	3,29E-08	2,53E-09	-3,30E-02
	AP	mol H+ -eq	0	0	4,17E-04	4,85E-03	6,68E-05	-4,67E-03
	EP-FreshWater	kg P -eq	0	0	8,01E-07	2,76E-06	1,67E-07	-5,14E-05
	EP-Marine	kg N -eq	0	0	1,24E-04	2,65E-03	2,25E-05	-1,40E-03
	EP-Terrestial	mol N -eq	0	0	1,37E-03	2,56E-02	2,52E-04	-1,50E-02
	POCP	kg NMVOC -eq	0	0	4,19E-04	6,09E-03	7,12E-05	-4,51E-03
	ADP-minerals&metals[1]	kg Sb-eq	0	0	2,76E-06	1,23E-06	1,37E-07	-1,25E-05
	ADP-fossil[1]	MJ	0	0	1,54E+00	2,44E+00	1,97E-01	-7,95E+00
	WDP[1]	m^3	0	0	1,47E+00	5,67E+00	1,06E+00	-7,43E+01

GWP-total = Global Warming Potential total; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment: EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

Remarks to environmental impacts

Additional environmental impact indicators

Indicator		Unit	A1-A3	A4	A5	B2	B3
	PM	Disease incidence	1,81E-06	5,76E-08	1,58E-09	1,14E-07	4,75E-09
	IRP[2]	kgBq U235 -eq	7,21E-01	4,45E-02	1,36E-03	8,90E-01	4,03E-02
	ETP-fw[1]	CTUe	9,06E+02	7,44E+00	4,12E-01	8,66E+01	3,84E+00
	HTP-c[1]	CTUh	2,78E-08	0,00E+00	1,30E-11	2,79E-09	9,70E-11
	HTP-nc[1]	CTUh	4,97E-07	7,20E-09	5,11E-10	8,81E-08	3,37E-09
	SQP[1]	dimensionless	4,25E+02	1,17E+01	2,36E-01	2,53E+01	1,13E+00

Indicator		Unit	B4	C1	C2	C3	C4	D
	PM	Disease incidence	0	0	7,34E-09	1,99E-08	1,04E-09	-2,40E-07
	IRP[2]	kgBq U235 -eq	0	0	6,72E-03	4,25E-03	8,46E-04	-4,10E-02
	ETP-fw[1]	CTUe	0	0	1,13E+00	1,57E+01	2,15E-01	-4,54E+01
	HTP-c[1]	CTUh	0	0	0,00E+00	5,14E-10	7,00E-12	-1,47E-09
	HTP-nc[1]	CTUh	0	0	1,22E-09	2,00E-08	3,36E-10	-1,73E-08
	SQP[1]	dimensionless	0	0	1,06E+00	3,04E-01	4,81E-01	-4,34E+01

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator
2. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Resource use

Indicator		Unit	A1-A3	A4	A5	B2	B3
	PERE	MJ	1,30E+02	1,28E-01	5,40E-03	1,99E+01	9,05E-01
	PERM	MJ	3,93E+01	0,00E+00	-7,61E+00	0,00E+00	0,00E+00
	PERT	MJ	1,69E+02	1,28E-01	-7,60E+00	1,99E+01	9,05E-01
	PENRE	MJ	2,55E+02	1,02E+01	3,16E-01	1,08E+02	4,88E+00
	PENRM	MJ	7,93E+01	0,00E+00	-2,97E+00	0,00E+00	0,00E+00
	PENRT	MJ	3,34E+02	1,02E+01	-2,66E+00	1,08E+02	4,88E+00
	SM	kg	2,20E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	RSF	MJ	2,75E-01	4,48E-03	1,75E-04	1,38E+00	6,27E-02
	NRSF	MJ	1,56E-01	1,50E-02	6,98E-04	3,70E-01	1,51E-02
	FW	m^3	3,94E-01	1,16E-03	1,50E-04	8,69E-01	3,99E-03

Indicator		Unit	B4	C1	C2	C3	C4	D
	PERE	MJ	0	0	2,17E-02	8,49E-02	6,83E-03	-4,01E+01
	PERM	MJ	0	0	0,00E+00	-3,31E+01	0,00E+00	0,00E+00
	PERT	MJ	0	0	2,17E-02	-3,30E+01	6,83E-03	-4,01E+01
	PENRE	MJ	0	0	1,54E+00	2,48E+00	1,97E-01	-7,95E+00
	PENRM	MJ	0	0	0,00E+00	-2,72E+02	0,00E+00	0,00E+00
	PENRT	MJ	0	0	1,54E+00	-2,70E+02	1,97E-01	-7,95E+00
	SM	kg	0	0	0,00E+00	0,00E+00	0,00E+00	-6,44E-05
	RSF	MJ	0	0	7,77E-04	2,02E-03	1,71E-04	-9,77E-04
	NRSF	MJ	0	0	2,77E-03	0,00E+00	1,90E-02	-2,20E+00
	FW	m^3	0	0	1,62E-04	8,50E-03	1,81E-04	-4,87E-02

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non renewable primary energy resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

End of life - Waste

Indicator		Unit	A1-A3	A4	A5	B2	B3
	HWD	kg	1,97E-01	5,57E-04	0,00E+00	1,87E-02	8,39E-04
	NHWD	kg	3,05E+00	8,85E-01	1,36E+00	4,24E-01	1,73E-02
	RWD	kg	6,74E-04	6,95E-05	0,00E+00	7,21E-04	3,26E-05

Indicator		Unit	B4	C1	C2	C3	C4	D
	HWD	kg	0	0	7,84E-05	0,00E+00	6,31E-01	-1,17E-03
	NHWD	kg	0	0	7,35E-02	2,19E-01	7,80E-02	-2,23E-01
	RWD	kg	0	0	1,05E-05	0,00E+00	1,24E-06	-3,37E-05

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

End of life - Output flow

Indicator		Unit	A1-A3	A4	A5	B2	B3
	CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	MFR	kg	8,33E-01	0,00E+00	1,24E+00	0,00E+00	0,00E+00
	MER	kg	6,61E-06	0,00E+00	3,69E-04	0,00E+00	0,00E+00
	EEE	MJ	4,60E-01	0,00E+00	7,40E-02	0,00E+00	0,00E+00
	EET	MJ	6,97E+00	0,00E+00	1,12E+00	0,00E+00	0,00E+00

Indicator		Unit	B4	C1	C2	C3	C4	D
	CRU	kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	MFR	kg	0	0	0,00E+00	2,58E-01	0,00E+00	-8,67E-06
	MER	kg	0	0	0,00E+00	5,84E+00	0,00E+00	-1,05E-06
	EEE	MJ	0	0	0,00E+00	4,94E+00	0,00E+00	-6,58E-06
	EET	MJ	0	0	0,00E+00	7,48E+01	0,00E+00	-9,95E-05

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

Biogenic Carbon Content

Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	1,03E+00
Biogenic carbon content in accompanying packaging	kg C	5,99E-01

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO2

Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Source	Amount	Unit
Electricity, high voltage, hydro (kWh) - PL	ecoinvent 3.6	4,02	g CO2-eq/kWh

Dangerous substances

The product contains no substances given by the REACH Candidate list.

Indoor environment

Greenguard Gold / Möbelfakta

Additional Environmental Information

Key Environmental Indicators

Key environmental indicators	Unit	A1-A3	A4	A1-C4	A1-D
GWPtotal	kg CO_2 -eq	14,42	0,65	34,29	33,65
Total energy consumption	MJ	384,90	10,32	535,68	485,39
Amount of recycled materials	%	30,54			

Additional environmental impact indicators required in NPCR Part A for construction products						
Indicator	Unit	A1-A3	A4	A5	B2	B3
GWPIOBC	kg CO_2 -eq	2,00E+01	6,55E-01	2,65E-02	5,99E+00	2,69E-01

Indicator	Unit	B4	C1	C2	C3	C4	D
GWPIOBC	kg CO_2 -eq	0	0	1,02E-01	6,90E+00	1,63E-02	-6,35E-01

GWP-IOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.

Variants and Options

Key environmental indicators (A1-A3) for variants of this EPD				
Variants	Weight (kg)	GWPtotal (kg CO_2 -eq)	Total energy consumption (MJ)	Amount of recycled materials (%)
OFFECCT Carry On — wood handle, upholstered in Xtreme/Camira — No Packaging	5,84	15,14	346,45	15,65
OFFECCT Carry On — leather handle, upholstered in Xtreme/Camira — No Packaging	5,75	18,18	354,19	15,89

Key environmental indicators (A1-A3) for options for this EPD				
Options	Weight (kg)	GWPtotal (kg CO_2 -eq)	Total energy consumption (MJ)	Amount of recycled materials (%)
OFFECCT Carry On — Packaging	1,36	-0,72	38,45	94,61

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